

# Untitled

Title: US-10-527-411A-66  
 Perfect score: 4545  
 Sequence: 1 MEFVNKQFNYPKDPVNGVDI A. .... SKYVDNQRLSTEEEEEEEE 876

## RESULT 3

US-11-077-550-66  
 : Sequence 66, Application US/11077550  
 : Publication No. US20050244435A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Shone, Clifford Charles  
 : APPLICANT: Quinn, Conrad Padraig  
 : APPLICANT: Foster, Keith Alan  
 : APPLICANT: Chaddock, John  
 : APPLICANT: Marks, Philip  
 : APPLICANT: Sutton, J. Mark  
 : APPLICANT: Stancombe, Patrick  
 : APPLICANT: Weyne, Jonathan  
 : TITLE OF INVENTION: Recombinant Toxin Fragments  
 : FILE REFERENCE: 1581.0130004  
 : CURRENT APPLICATION NUMBER: US/11/077,550  
 : CURRENT FILING DATE: 2005-03-11  
 : PRIOR APPLICATION NUMBER: 10/241,596  
 : PRIOR FILING DATE: 2002-09-12  
 : PRIOR APPLICATION NUMBER: 09/255,829  
 : PRIOR FILING DATE: 1999-02-23  
 : PRIOR APPLICATION NUMBER: PCT/GB97/02273  
 : PRIOR FILING DATE: 1997-08-22  
 : PRIOR APPLICATION NUMBER: 08/782,893  
 : PRIOR FILING DATE: 1996-12-27  
 : PRIOR APPLICATION NUMBER: GB9625996.5  
 : PRIOR FILING DATE: 1996-12-13  
 : PRIOR APPLICATION NUMBER: GB9617671.4  
 : PRIOR FILING DATE: 1996-08-23  
 : NUMBER OF SEQ ID NOS: 179  
 : SOFTWARE: PatentIn version 3.1  
 : SEQ ID NO 66  
 : LENGTH: 876  
 : TYPE: PRT  
 : ORGANISM: Clostridium botulinum  
 US-11-077-550-66

Query Match 100.0% Score 4545; DB 6; Length 876;  
 Best Local Similarity 100.0% Pred. No. 6.7e-289;  
 Matches 876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MEFVNKQFNYPKDPVNGVDI	AYI	KI	PNAGQMPVKAFKI	HNKI	WVI	PERDTFTNP	EEGDLN	60
Db	1	MEFVNKQFNYPKDPVNGVDI	AYI	KI	PNAGQMPVKAFKI	HNKI	WVI	PERDTFTNP	EEGDLN	60
Qy	61	PPPEAKQVPVSYDYDSTYL	SDNEK	DNYL	KGVT	KLFERI	YSTDLGR	MLLTSI	VRG	PFWGG 120
Db	61	PPPEAKQVPVSYDYDSTYL	SDNEK	DNYL	KGVT	KLFERI	YSTDLGR	MLLTSI	VRG	PFWGG 120
Qy	121	STI	DTELKVI	DTNCI	NVI	QPDGSYRSEEL	NLVI	I	GPSADI	I
Db	121	STI	DTELKVI	DTNCI	NVI	QPDGSYRSEEL	NLVI	I	GPSADI	I
Qy	181	GSTQYI	RFSPDFTFGFEESLE	VDTNPLL	GAGK	FATDP	AVTLA	HELI	HAGHRLYG	AI

# Untitled

Db 181 GSTQYI RFSPDFTFGFEESLEVDNPLLGAGKFATDPAVTLAHLI HAGRL YGI AI NPN 240

Qy 241 RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLQENEFRLYYYNKFKDI ASTLNKA 300

Db 241 RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLQENEFRLYYYNKFKDI ASTLNKA 300

Qy 301 KSI VGTITASLQYMKNVFKEKYLLEDTSKGFSVDKLKFDLYKMLTEI YTEDNFVKFFKV 360

Db 301 KSI VGTITASLQYMKNVFKEKYLLEDTSKGFSVDKLKFDLYKMLTEI YTEDNFVKFFKV 360

Qy 361 LNRKTYLNFDKAVFKI NI VPKVNYTI YDGNLRFNTNLAAANFGNGTEI NNMNFTKLKNFT 420

Db 361 LNRKTYLNFDKAVFKI NI VPKVNYTI YDGNLRFNTNLAAANFGNGTEI NNMNFTKLKNFT 420

Qy 421 GLFEFYKLLCVRG I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK 480

Db 421 GLFEFYKLLCVRG I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK 480

Qy 481 GEEI TSDTNI EAAEENI SLDLI QQYLTFFNFNEPENI SI ENLSSDI I GQELMPNI ERF 540

Db 481 GEEI TSDTNI EAAEENI SLDLI QQYLTFFNFNEPENI SI ENLSSDI I GQELMPNI ERF 540

Qy 541 PNGKKYELDKYTMFHYLRACEFEHGSRII ALTNVNEALLNPSRVYTFSSDYVKVKVKA 600

Db 541 PNGKKYELDKYTMFHYLRACEFEHGSRII ALTNVNEALLNPSRVYTFSSDYVKVKVKA 600

Qy 601 TEAAMFLGWELQVYDFTDETSEVSTTDKI ADI T I I I PYI GPALNI GNMLYKDDFVGALI 660

Db 601 TEAAMFLGWELQVYDFTDETSEVSTTDKI ADI T I I I PYI GPALNI GNMLYKDDFVGALI 660

Qy 661 FSGAVI LLEFI PEI AI PVLGTFALVSYI ANKVLTVGTI DNALSKRNEKVDVEYKYI VTNW 720

Db 661 FSGAVI LLEFI PEI AI PVLGTFALVSYI ANKVLTVGTI DNALSKRNEKVDVEYKYI VTNW 720

Qy 721 LAKVNTQI DLI RKKMKEALENQAETKAI I NYQYNYTEEEKNNI NFNI DDLSSKLNESI 780

Db 721 LAKVNTQI DLI RKKMKEALENQAETKAI I NYQYNYTEEEKNNI NFNI DDLSSKLNESI 780

Qy 781 NKAM NI NKFLNQCSVSYLMSM PYGVKRLDFDASLKDALIKYI YDNRGTLI GQVDRIL 840

Db 781 NKAM NI NKFLNQCSVSYLMSM PYGVKRLDFDASLKDALIKYI YDNRGTLI GQVDRIL 840

Qy 841 KDKVNNTLSTDI PFQLSKYVDNQRLSTEEEEEEEEE 876

Db 841 KDKVNNTLSTDI PFQLSKYVDNQRLSTEEEEEEEEE 876

## RESULT 5

US-11-644-010-66

; Sequence 66, Application US/11644010

; Publication No. US20070248626A1

### GENERAL INFORMATION:

; APPLICANT: Shone, Clifford Charles

; APPLICANT: Quinn, Conrad Padraig

; APPLICANT: Foster, Keith Alan

; APPLICANT: Chaddock, John

; APPLICANT: Marks, Philip

; APPLICANT: Sutton, J. Mark

; APPLICANT: Stancombe, Patrick

; APPLICANT: Wayne, Jonathan

; TITLE OF INVENTION: Recombinant Toxin Fragments

; FILE REFERENCE: 1581.0130006/TJS/JJY

; CURRENT APPLICATION NUMBER: US/11/644,010

; CURRENT FILING DATE: 2006-12-22

# Untitled

PRI OR APPLI CATI ON NUMBER: US 10/ 241, 596  
 PRI OR FI LING DATE: 2002-09-12  
 PRI OR APPLI CATI ON NUMBER: US 09/ 255, 829  
 PRI OR FI LING DATE: 1999-02-23  
 PRI OR APPLI CATI ON NUMBER: PCT/ GB97/ 02273  
 PRI OR FI LING DATE: 1997-08-22  
 PRI OR APPLI CATI ON NUMBER: US 08/ 782, 893  
 PRI OR FI LING DATE: 1996-12-27  
 PRI OR APPLI CATI ON NUMBER: GB 9617671. 4  
 PRI OR FI LING DATE: 1996-08-23  
 NUMBER OF SEQ ID NOS: 175  
 SOFTWARE: PatentIn version 3. 1  
 SEQ ID NO 66  
 LENGTH: 876  
 TYPE: PRT  
 ORGANISM: Clostridium botulinum  
 US-11-644-010-66

Query Match 100.0% Score 4545; DB 6; Length 876;  
 Best Local Similarity 100.0% Pred. No. 6.7e-289;  
 Matches 876; Conservative 0; Msmatches 0; Indels 0; Gaps 0;

Qy	1	MEFVNKQFNKYDQPVNGVDI AYI KI PNAGQMQPVKAFKI HNKI WVI PERDTFTNP EEGDLN	60
Db	1	MEFVNKQFNKYDQPVNGVDI AYI KI PNAGQMQPVKAFKI HNKI WVI PERDTFTNP EEGDLN	60
Qy	61	PPPEAKQVPVSYDDSTYLSTDNEKDNYLKGVTKLFERI YSTDLGRLMLTSI VRG PFVGG	120
Db	61	PPPEAKQVPVSYDDSTYLSTDNEKDNYLKGVTKLFERI YSTDLGRLMLTSI VRG PFVGG	120
Qy	121	STI DTELKVI DTNCI NWI QPDGSYRSEELNLVI I GPSADI I QFECKSFGEVLNLTRNGY	180
Db	121	STI DTELKVI DTNCI NWI QPDGSYRSEELNLVI I GPSADI I QFECKSFGEVLNLTRNGY	180
Qy	181	GSTQYI RFPDQFTFGFEESLEVDTNPLL GAGKFATDPAVTLAHLI HAGHRLYG AI NPN	240
Db	181	GSTQYI RFPDQFTFGFEESLEVDTNPLL GAGKFATDPAVTLAHLI HAGHRLYG AI NPN	240
Qy	241	RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLGENEFLRYNNKFKDI ASTLNKA	300
Db	241	RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLGENEFLRYNNKFKDI ASTLNKA	300
Qy	301	KSI VGTATSLQYMNVFKEKYLLSEDTSGKFSVDLKFDKLYKMLTEI YTEDNFVKFFKV	360
Db	301	KSI VGTATSLQYMNVFKEKYLLSEDTSGKFSVDLKFDKLYKMLTEI YTEDNFVKFFKV	360
Qy	361	LNKTYLNFDAKAVFKI NI VPKVNYTI YDGFNLNNTNLAAFNNGQNTI NNNNFTKLKNFT	420
Db	361	LNKTYLNFDAKAVFKI NI VPKVNYTI YDGFNLNNTNLAAFNNGQNTI NNNNFTKLKNFT	420
Qy	421	GLFEFYKLLCVRGI I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK	480
Db	421	GLFEFYKLLCVRGI I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK	480
Qy	481	GEEI TSDTNI EAAEENI SLDLI QQYLTTFNFDNEPENI SI ENLSSDI I GQELMPNI ERF	540
Db	481	GEEI TSDTNI EAAEENI SLDLI QQYLTTFNFDNEPENI SI ENLSSDI I GQELMPNI ERF	540
Qy	541	PNGKYYELDKYTMFHYLRACEFEHKSRI ALTNSVNEALLNPSRVYTFSSDYVKKNKA	600
Db	541	PNGKYYELDKYTMFHYLRACEFEHKSRI ALTNSVNEALLNPSRVYTFSSDYVKKNKA	600
Qy	601	TEAAMFLGWELVYDFTDETSEVSTDKI ADI TI I I PYI GPALNI GNMLYKDDFVGALI	660

# U n t i t l e d

Db	601	TEAAMFLGW	EQLVYDFTDETSEVSTTDKI	ADI	TI	I	PYI	GPALNI	GNMLYKDDFVGAL	660
Qy	661	FSGAVI	LLEFI	PEI	AI	PVLGTFALVSYI	ANKVLT	VQTI	DNALSKRNEKWDEVYKYI	VTNW 720
Db	661	FSGAVI	LLEFI	PEI	AI	PVLGTFALVSYI	ANKVLT	VQTI	DNALSKRNEKWDEVYKYI	VTNW 720
Qy	721	LAKVNTQI	DLI	RKKMKEALENQAEATKAI	I	NYQYNQYTEEEKNNI	NFNI	DDLSSKL	NESI	780
Db	721	LAKVNTQI	DLI	RKKMKEALENQAEATKAI	I	NYQYNQYTEEEKNNI	NFNI	DDLSSKL	NESI	780
Qy	781	NKAM	NI	NKFLNQCSVSYLMNSM	PYGVK	RLEDFDASLKDALLKYI	YDNRGTLI	GQVDR	L	840
Db	781	NKAM	NI	NKFLNQCSVSYLMNSM	PYGVK	RLEDFDASLKDALLKYI	YDNRGTLI	GQVDR	L	840
Qy	841	KDKVNNTLSTDI	PFQLSKYVDNQRL	LLSTEEEEEEEE						876
Db	841	KDKVNNTLSTDI	PFQLSKYVDNQRL	LLSTEEEEEEEE						876